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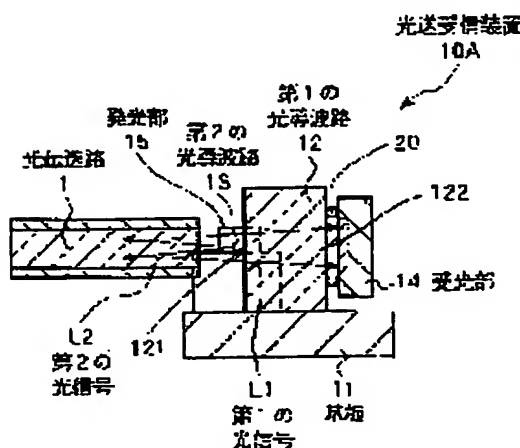
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(54) OPTICAL SWITCHING DEVICE AND OPTICAL TRANSMITTER-RECEIVER, AND THEIR MANUFACTURING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a down-sized optical switching device and optical transmitter-receiver permitting bi-directional optical switching and optical transmission by using a single optical transmission path such as optical fiber, and a manufacturing method therefor.

SOLUTION: The optical transmitter-receiver 10A is provided with a 1st optical waveguide 12 for transmitting 1st incident optical signal L1 approximately in the incident direction, and a 2nd waveguide 13 for guiding a 2nd optical signal L2 made incident from the different direction of the 1st optical signal L1 in the reverse direction of the 1st optical signal L1. The 1st optical waveguide 12 has an incident plane 121 on which the 1st optical signal L1 is made incident, and an exit plane 122 from which the 1st optical signal L1 is made to exit. The 2nd optical guide 13 is



mounted on the incident plane 121 of the 1st optical guide 12.

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